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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/779,315	02/08/2001	April Patricia Rasala	Rasala 3-21	4552
GARDNER GROFF, P.C. PAPER MILL VILLAGE, BUILDING 23 600 VILLAGE TRACE SUITE 300			EXAMINER	
			PAYNE, DAVID C	
			ART UNIT	PAPER NUMBER
			2633	~
MARIETTA,	GA 30067		DATE MAILED: 04/06/2004	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/779,315	RASALA ET AL.			
Office Action Summary	Examiner	Art Unit			
	David C. Payne	2633			
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatii - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory in - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a roon. , a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	05 January 2004.	•			
·					
3) Since this application is in condition for al	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims		·			
4) Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and the application are subject.	hdrawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Exa	miner.				
10) The drawing(s) filed on is/are: a)))☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.				
Applicant may not request that any objection to					
Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the country is a second country.		` ' '			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for the application from the International B	ments have been received. ments have been received in A e priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachmont(a)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-94	8) Paper No(s	s)/Mail Date			
 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 	5) Notice of I	nformal Patent Application (PTO-152) —·			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Art Unit: 2633

DETAILED ACTION

Response to Arguments

 Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-18 are rejected under 35 U.S.C. 103(a) as being obvious over Shiragaki US 5,457,556 (Shiragaki).

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Shiragaki disclosed (Figure 5)

A non-blocking wavelength division multiplexed (WDM) cross-connect device/ method (e.g., col./line: 5/1-5, 20-25), the device comprising: a first fabric (Figure 5, 13 - left) being adapted to receive a first number of input fibers at an input side of said first fabric, wherein at least one of said input fibers is capable of carrying at least two signals having different wavelengths; a second fabric (Figure 5, 13 - right) being adapted to output signals onto first number of output fibers at an output side of said second fabric, and wherein at least one of said output fibers is capable of carrying at least two signals having different wavelengths;

at least one wavelength interchanger (Figure 5, 55) coupled by optical fibers to an output side of said first fabric and to an input side of said second fabric (Figure 5, 13 - right); and a controller (Figure 11 #27);

A third fabric (Figure 5 #10) being adapted to be optically coupled on an input side of said third fabric to said input fibers and to be optically coupled on an output side of said third fabric to said output fibers; and a controller being configured to execute a routing algorithm that causes demands that do not require a change in wavelength to be routed through said third fabric.

Shiragaki does not disclose wherein the controller is coupled to said first, second fabrics and to said at least one wavelength interchanger, the controller being configured to execute a routing algorithm that causes a demand that requires a change of wavelength to be routed through at least one of said

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at least one wavelength interchanger. The controller for illustration purposes is only shown in Figures 2 and 11, however it would have been obvious to one of ordinary skill in the art at the time of invention to attach the controller to the corresponding components in Figure 5 so that the network would be able to modify routes and switch signals in the network as is commonly practiced.

Furthermore, Shiragaki does not show a single pass-through third switch fabric (10) but two such fabrics. However, it would have been obvious to one of ordinary skill in the art at the time of invention to integrate the two switches into a single switch to simply architecture control. Making parts separable is not patentable over the prior art.

Re claim(s) 2, 13, 17, 18

Shiragaki disclosed (Figure 5)

wherein said first number of input fibers is k, said first number of output fibers is k and wherein the device comprises k wavelength interchangers, k being an integer that is greater than or equal to 1.

Re claim(s) 4, 8, 12

Shiragaki disclosed (Figure 5) wherein the device is non-blocking (e.g., col./line: 5/5-20) in terms of both wavelength and routing, and wherein each of said k wavelength interchangers (55) is controlled by control

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signals (Figure 11 #27) received thereby to select a wavelength that a signal received on an optical fiber

coupling the output side of the first fabric (13 left) to the wavelength interchanger is to utilize when the

signal is routed by the wavelength interchanger onto an optical fiber coupling the wavelength interchanger

to the input side (12-1) of the second fabric.

Re claim(s) 5

Shiragaki disclosed (Figure 5) wherein each of said k input fibers (see Figure 5 input of 12-1) is capable

of carrying a plurality of signals having different wavelengths (col./line: 4/55-65), and wherein each of said

k output fibers is capable of carrying a plurality of signals having different wavelengths (see Figure 5

output of 14-1).

Re claim(s) 16

Shiragaki disclosed: " A computer program", " computer readable medium" or " code for controlling

operations" (col./.line: 11/30-50).

Conclusion

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4. Any inquiry concerning this communication or earlier communications from the examiner should be

directed to David C. Payne whose telephone number is (703) 306-0004. The examiner can normally

be reached on M-F, 7a-4p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Jason Chan can be reached on (703) 305-4729. The fax phone number for the organization where this

application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

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JASUN P

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